

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **8SNLED-LD5-93SL-RW-UNV-L940-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33525)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNLED-LD5-93SL-RW-UNV-L940-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
WHITE REFLECTOR  
Light Source: -  
Ballast/Driver: -

**Summary**

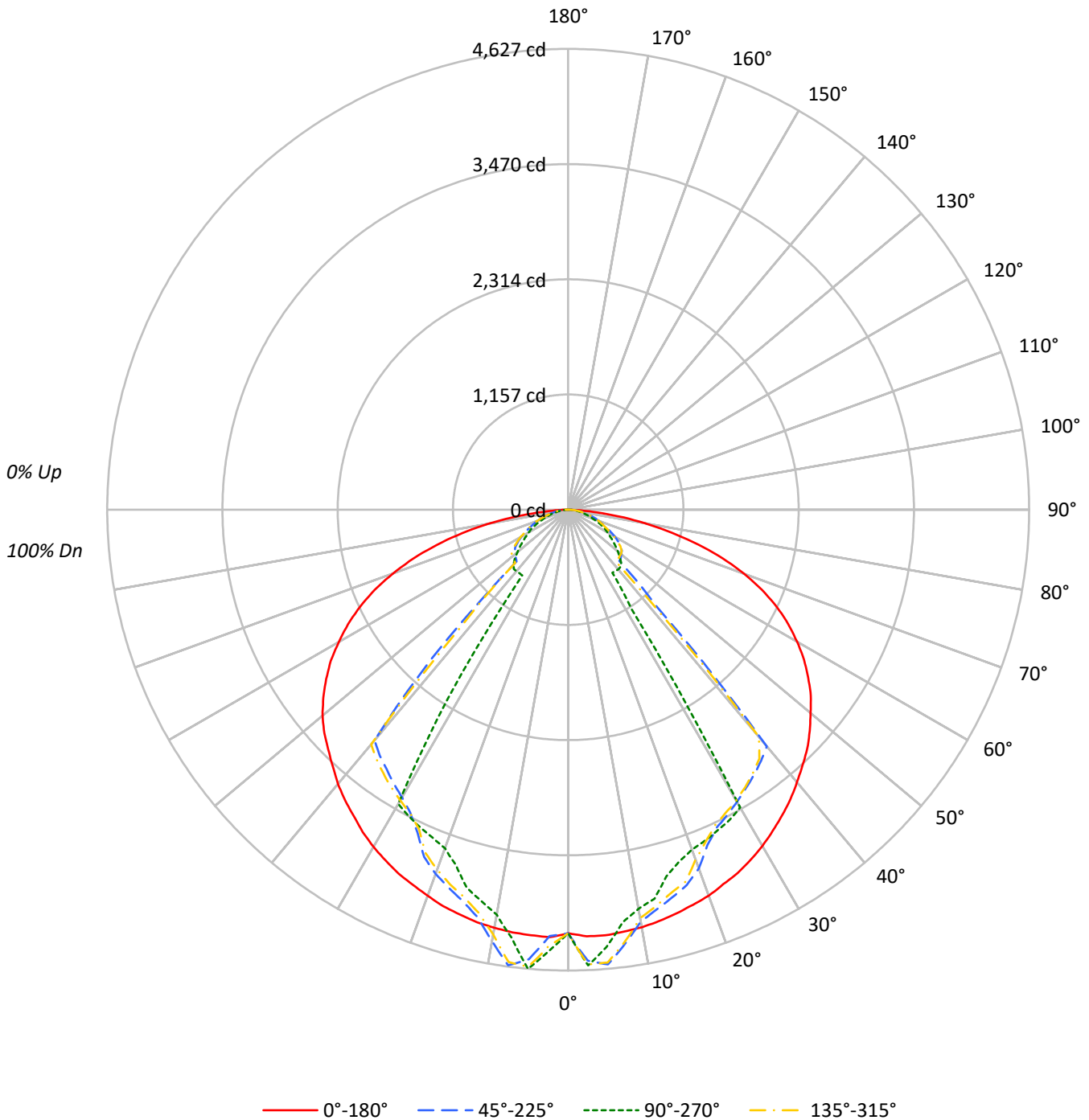
Lumens per Lamp: N/A  
Luminaire Lumens: 8517.0 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 75  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P#  
CATALOG NUMBER: 8SNLED-LD5-93SL-RW-UNV-L940-CD1-U

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77	75
3	94	84	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	62	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	17185	17185	17185	17185
5°	17377	17314	17369	18172
10°	17418	15654	17442	15894
15°	17481	14484	17522	14943
20°	17634	13737	17634	13686
25°	17815	13475	17841	13349
30°	18026	13237	18071	13080
35°	18270	3015	18308	3144
40°	18601	3135	18713	3237
45°	19093	3118	19159	3231
50°	19595	2819	19859	2895
55°	20268	2503	20429	2539
60°	20873	2224	20919	2253
65°	21367	1941	21314	1910
70°	21240	1564	21174	1507
75°	19983	1204	20126	1153
80°	16623	855	17290	783
85°	9586	513	10121	393



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CATALOG NUMBER: 8SNLED-LD5-93SL-RW-UNV-L940-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	418.5	4.9
10°-20°	1150.6	13.5
20°-30°	1704.2	20.0
30°-40°	1717.1	20.2
40°-50°	1341.3	15.7
50°-60°	1036.1	12.2
60°-70°	695.6	8.2
70°-80°	354.9	4.2
80°-90°	98.7	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3273.2	38.4
0°-40°	4990.4	58.6
0°-60°	7367.8	86.5
0°-90°	8517.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8517.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4253	4253	4253	4253	4253	
5°	4290	4409	4288	4627	4290	408
15°	4197	3811	4206	3932	4197	1187
25°	4025	3552	4031	3518	4025	1857
35°	3744	772	3752	805	3744	2347
45°	3394	750	3405	778	3394	2617
55°	2941	546	2965	554	2941	2627
65°	2310	366	2304	361	2310	2272
75°	1355	185	1364	177	1355	1417
85°	244	58	257	45	244	335
90°	0	0	0	0	0	



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2
2.5°	4286.3	4301.9	4313.6	4321.4	4325.3	4325.3	4327.2	4329.2	4354.5	4366.2	4374.0
5°	4290.2	4305.8	4329.2	4360.4	4387.7	4411.1	4430.5	4457.8	4485.1	4514.4	4524.1
7.5°	4272.7	4292.2	4338.9	4395.5	4448.1	4485.1	4510.5	4528.0	4541.7	4543.6	4553.3
10°	4257.1	4292.2	4356.5	4430.5	4496.8	4541.7	4541.7	4531.9	4545.6	4492.9	4440.3
12.5°	4229.8	4268.8	4356.5	4453.9	4516.3	4533.9	4526.1	4487.1	4407.2	4342.8	4313.6
15°	4196.6	4249.3	4358.4	4467.6	4520.2	4526.1	4452.0	4352.6	4292.2	4253.2	4204.4
17.5°	4159.6	4229.8	4360.4	4469.5	4489.0	4461.7	4321.4	4259.0	4196.6	4105.0	4038.8
20°	4124.5	4192.7	4344.8	4442.2	4453.9	4331.1	4222.0	4155.7	4050.5	3970.5	3941.3
22.5°	4069.9	4149.9	4331.1	4405.2	4360.4	4218.1	4112.8	4007.6	3912.1	3888.7	3853.6
25°	4025.1	4108.9	4300.0	4360.4	4241.5	4114.8	3992.0	3869.2	3824.3	3791.2	3760.0
27.5°	3964.7	4068.0	4259.0	4278.5	4114.8	4003.7	3824.3	3769.8	3728.8	3691.8	3678.2
30°	3898.4	4025.1	4202.5	4165.5	4009.5	3845.8	3713.2	3662.6	3633.3	3594.3	3578.7
32.5°	3822.4	3960.8	4140.1	4034.9	3896.5	3691.8	3606.0	3567.0	3528.1	3498.8	3401.4
35°	3744.4	3904.3	4066.0	3910.1	3760.0	3574.8	3498.8	3463.7	3426.7	3319.5	3218.1
37.5°	3664.5	3841.9	3976.4	3775.6	3578.7	3454.0	3389.7	3350.7	3266.9	3130.4	3079.7
40°	3572.9	3765.9	3861.4	3637.2	3420.9	3331.2	3270.8	3231.8	3042.7	2982.3	2966.7
42.5°	3481.3	3691.8	3721.0	3502.7	3290.3	3200.6	3149.9	3021.3	2892.6	2861.4	2867.3
45°	3393.6	3611.9	3567.0	3311.7	3153.8	3079.7	2994.0	2816.6	2748.4	2764.0	2767.9
47.5°	3288.3	3516.4	3405.3	3120.7	3013.5	2939.4	2748.4	2641.2	2631.4	2652.9	2664.6
50°	3175.3	3409.2	3233.7	2947.2	2861.4	2773.7	2557.4	2502.8	2514.5	2535.9	2549.6
52.5°	3070.0	3288.3	3056.4	2785.4	2711.3	2510.6	2364.4	2374.1	2393.6	2419.0	2426.8
55°	2941.4	3142.1	2867.3	2621.7	2551.5	2288.4	2222.1	2245.5	2265.0	2286.4	2302.0
57.5°	2806.9	2974.5	2643.1	2438.5	2325.4	2091.5	2097.3	2112.9	2126.6	2151.9	888.8
60°	2652.9	2783.5	2397.5	2268.9	2044.7	1935.6	1941.4	1968.7	1982.3	1107.1	612.1
62.5°	2493.0	2561.3	2175.3	2075.9	1787.4	1779.6	1806.9	1818.6	1237.7	584.8	573.1
65°	2309.8	2296.2	1957.0	1799.1	1612.0	1619.8	1649.0	1590.6	547.7	547.7	543.8
67.5°	2107.1	2025.2	1744.5	1489.2	1442.4	1460.0	1491.1	520.4	506.8	510.7	497.0
70°	1875.1	1760.1	1524.3	1261.1	1276.7	1294.3	502.9	471.7	465.9	456.1	428.8
72.5°	1629.5	1471.7	1247.5	1095.5	1105.2	693.9	440.5	424.9	405.4	385.9	356.7
75°	1354.7	1150.0	916.1	916.1	929.8	395.7	384.0	358.7	337.2	311.9	294.3
77.5°	1062.3	884.9	711.5	738.7	360.6	331.4	309.9	282.6	265.1	249.5	239.8
80°	777.7	617.9	536.0	479.5	280.7	251.4	230.0	214.4	206.6	196.9	185.2
82.5°	510.7	372.3	372.3	226.1	196.9	173.5	167.6	155.9	148.1	142.3	136.4
85°	243.7	216.4	163.7	138.4	122.8	111.1	107.2	101.4	101.4	99.4	97.5
87.5°	89.7	97.5	72.1	70.2	66.3	64.3	66.3	66.3	68.2	66.3	64.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-93SL-RW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2
2.5°	4393.5	4409.1	4420.8	4440.3	4465.6	4487.1	4506.6	4533.9	4576.7	4588.4	4598.2
5°	4524.1	4530.0	4543.6	4559.2	4563.1	4572.8	4570.9	4582.6	4588.4	4602.1	4572.8
7.5°	4531.9	4500.7	4463.7	4430.5	4407.2	4385.7	4372.1	4393.5	4405.2	4415.0	4385.7
10°	4368.2	4331.1	4309.7	4290.2	4266.8	4233.7	4188.8	4198.6	4194.7	4194.7	4184.9
12.5°	4264.9	4212.2	4157.7	4108.9	4087.5	4085.5	4087.5	4108.9	4108.9	4107.0	4095.3
15°	4103.1	4052.4	4025.1	4013.4	4013.4	4007.6	4007.6	4031.0	4025.1	4025.1	4019.3
17.5°	3995.9	3960.8	3941.3	3927.7	3921.8	3931.6	3943.2	3953.0	3954.9	3947.1	3916.0
20°	3908.2	3875.0	3851.6	3855.5	3853.6	3859.4	3865.3	3832.1	3791.2	3736.6	3711.3
22.5°	3816.5	3791.2	3773.7	3773.7	3750.3	3713.2	3658.7	3647.0	3641.1	3615.8	3594.3
25°	3728.8	3699.6	3674.3	3596.3	3547.6	3553.4	3543.7	3524.2	3522.2	3520.3	3528.1
27.5°	3641.1	3565.1	3467.6	3455.9	3436.5	3434.5	3446.2	3455.9	3455.9	3463.7	3473.5
30°	3459.8	3372.1	3354.6	3333.1	3340.9	3368.2	3374.1	3387.7	3391.6	3405.3	3413.1
32.5°	3294.2	3255.2	3239.6	3249.3	3274.7	3298.1	3311.7	3317.6	3327.3	3339.0	3348.7
35°	3159.7	3148.0	3161.6	3183.1	3208.4	3227.9	3239.6	3251.3	3261.0	3270.8	3278.6
37.5°	3060.3	3068.1	3087.5	3114.8	3140.2	3155.8	3165.5	3179.2	3192.8	3204.5	3157.7
40°	2966.7	2986.2	3007.6	3036.9	3058.3	3073.9	3083.6	3101.2	2984.2	1350.8	740.7
42.5°	2884.8	2906.3	2921.9	2945.3	2968.6	2980.3	2894.6	1292.3	731.0	727.1	736.8
45°	2785.4	2803.0	2828.3	2845.8	2867.3	1882.9	719.3	727.1	715.4	723.2	727.1
47.5°	2684.1	2711.3	2725.0	2600.2	773.8	715.4	707.6	715.4	707.6	717.3	711.5
50°	2569.1	2602.2	1851.7	699.8	693.9	690.0	697.8	693.9	699.8	707.6	692.0
52.5°	2452.1	1518.4	678.3	674.4	678.3	674.4	688.1	678.3	680.3	672.5	653.0
55°	830.4	656.9	651.0	649.1	660.8	660.8	660.8	645.2	635.4	615.9	602.3
57.5°	635.4	635.4	633.5	635.4	631.5	627.6	610.1	596.5	582.8	555.5	547.7
60°	602.3	602.3	602.3	602.3	584.8	577.0	549.7	538.0	514.6	500.9	493.1
62.5°	575.0	571.1	553.6	547.7	528.2	506.8	491.2	479.5	456.1	448.3	442.5
65°	536.0	522.4	500.9	477.6	467.8	444.4	436.6	419.1	407.4	401.5	397.6
67.5°	471.7	452.2	434.7	419.1	401.5	393.7	384.0	370.3	362.6	358.7	354.8
70°	403.5	389.8	372.3	362.6	350.9	345.0	331.4	327.5	321.6	315.8	309.9
72.5°	337.2	329.4	321.6	308.0	304.1	300.2	286.5	278.7	270.9	263.1	259.2
75°	282.6	276.8	272.9	261.2	255.3	243.7	233.9	228.1	222.2	216.4	212.5
77.5°	232.0	228.1	216.4	208.6	204.7	194.9	191.0	193.0	189.1	181.3	177.4
80°	181.3	177.4	167.6	167.6	163.7	159.8	155.9	152.0	148.1	142.3	138.4
82.5°	138.4	134.5	130.6	126.7	122.8	120.9	118.9	115.0	111.1	107.2	105.3
85°	97.5	95.5	93.6	91.6	89.7	87.7	85.8	81.9	78.0	76.0	74.1
87.5°	66.3	64.3	62.4	60.4	58.5	56.5	54.6	52.6	48.7	46.8	44.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-93SL-RW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2
2.5°	4598.2	4607.9	4598.2	4576.7	4563.1	4557.2	4568.9	4568.9	4576.7	4586.5	4588.4
5°	4526.1	4502.7	4475.4	4448.1	4434.4	4426.7	4405.2	4409.1	4415.0	4418.9	4422.8
7.5°	4346.7	4315.5	4278.5	4243.4	4229.8	4218.1	4192.7	4192.7	4192.7	4194.7	4206.4
10°	4163.5	4149.9	4134.3	4110.9	4093.3	4087.5	4066.0	4071.9	4068.0	4073.8	4087.5
12.5°	4077.7	4062.1	4048.5	4025.1	4005.6	3997.8	3988.1	3993.9	3992.0	4001.7	4013.4
15°	3999.8	3992.0	3976.4	3958.8	3941.3	3925.7	3890.6	3878.9	3871.1	3861.4	3875.0
17.5°	3871.1	3816.5	3779.5	3752.2	3732.7	3719.1	3709.3	3709.3	3715.2	3721.0	3732.7
20°	3695.7	3680.1	3662.6	3633.3	3613.8	3606.0	3600.2	3600.2	3609.9	3617.7	3639.2
22.5°	3574.8	3572.9	3567.0	3553.4	3543.7	3543.7	3545.6	3549.5	3563.2	3574.8	3596.3
25°	3518.3	3526.1	3522.2	3514.4	3508.6	3510.5	3506.6	3510.5	3524.2	3535.9	3553.4
27.5°	3473.5	3485.2	3481.3	3469.6	3459.8	3463.7	3469.6	3465.7	3477.4	3491.0	3504.7
30°	3413.1	3415.0	3422.8	3409.2	3405.3	3411.1	3413.1	3417.0	3428.7	3438.4	3450.1
32.5°	3344.8	3360.4	3358.5	3344.8	3344.8	3350.7	3352.6	3222.0	2978.4	2565.2	2452.1
35°	3278.6	3296.1	3266.9	2754.2	1906.3	1017.5	785.5	758.2	764.1	768.0	771.9
37.5°	2424.8	1150.0	732.9	738.7	744.6	750.4	756.3	762.1	768.0	773.8	775.8
40°	729.0	727.1	732.9	740.7	746.5	750.4	758.2	764.1	769.9	775.8	777.7
42.5°	721.2	725.1	731.0	738.7	746.5	754.3	760.2	768.0	771.9	775.8	777.7
45°	717.3	725.1	732.9	738.7	744.6	748.5	752.4	754.3	752.4	752.4	756.3
47.5°	711.5	719.3	721.2	719.3	721.2	719.3	719.3	719.3	713.4	711.5	711.5
50°	690.0	690.0	686.1	678.3	676.4	674.4	670.5	668.6	660.8	658.8	658.8
52.5°	645.2	643.2	637.4	627.6	623.7	619.8	617.9	615.9	608.2	604.3	606.2
55°	592.6	588.7	582.8	571.1	569.2	565.3	563.3	561.4	553.6	557.5	551.6
57.5°	543.8	536.0	528.2	526.3	518.5	516.5	514.6	512.6	506.8	508.7	504.8
60°	485.4	483.4	479.5	471.7	471.7	469.8	469.8	465.9	462.0	460.0	460.0
62.5°	442.5	436.6	432.7	432.7	426.9	426.9	426.9	423.0	419.1	421.0	419.1
65°	395.7	393.7	391.8	387.9	387.9	385.9	385.9	382.0	376.2	378.1	374.2
67.5°	356.7	352.8	348.9	347.0	339.2	335.3	333.3	331.4	323.6	325.5	321.6
70°	308.0	302.1	298.2	294.3	288.5	284.6	284.6	280.7	274.8	276.8	272.9
72.5°	257.3	253.4	249.5	247.5	241.7	239.8	237.8	235.9	230.0	232.0	230.0
75°	214.4	214.4	212.5	210.5	204.7	198.8	194.9	193.0	189.1	191.0	187.1
77.5°	177.4	173.5	169.6	169.6	163.7	159.8	155.9	155.9	155.9	154.0	152.0
80°	138.4	134.5	134.5	132.5	128.6	124.7	122.8	122.8	120.9	120.9	118.9
82.5°	105.3	101.4	99.4	99.4	95.5	93.6	91.6	89.7	89.7	89.7	87.7
85°	74.1	70.2	68.2	68.2	64.3	62.4	62.4	60.4	60.4	58.5	58.5
87.5°	44.8	42.9	40.9	40.9	37.0	35.1	35.1	35.1	33.1	33.1	31.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-93SL-RW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2
2.5°	4588.4	4588.4	4574.8	4578.7	4572.8	4580.6	4570.9	4570.9	4582.6	4582.6	4590.4
5°	4424.7	4415.0	4413.0	4409.1	4389.6	4397.4	4387.7	4377.9	4391.6	4391.6	4409.1
7.5°	4200.5	4183.0	4190.8	4179.1	4167.4	4149.9	4155.7	4147.9	4157.7	4171.3	4188.8
10°	4085.5	4069.9	4079.7	4068.0	4073.8	4048.5	4050.5	4052.4	4062.1	4066.0	4081.6
12.5°	4011.5	4007.6	4003.7	3999.8	4003.7	3990.0	3982.2	3984.2	3988.1	3990.0	4001.7
15°	3855.5	3830.2	3838.0	3810.7	3812.6	3814.6	3799.0	3814.6	3812.6	3838.0	3861.4
17.5°	3728.8	3728.8	3715.2	3703.5	3695.7	3693.7	3682.1	3689.8	3682.1	3697.6	3703.5
20°	3641.1	3639.2	3637.2	3631.4	3611.9	3613.8	3619.7	3602.1	3600.2	3598.2	3609.9
22.5°	3600.2	3602.1	3594.3	3594.3	3576.8	3580.7	3582.6	3563.2	3565.1	3559.3	3565.1
25°	3557.3	3561.2	3551.5	3551.5	3547.6	3545.6	3535.9	3539.8	3528.1	3518.3	3528.1
27.5°	3506.6	3514.4	3506.6	3510.5	3502.7	3498.8	3493.0	3489.1	3477.4	3475.4	3481.3
30°	3459.8	3463.7	3461.8	3452.0	3450.1	3438.4	3444.2	3432.6	3420.9	3422.8	3426.7
32.5°	1773.8	1693.9	1306.0	1179.3	1167.6	1210.5	1434.6	1746.5	2263.0	2764.0	3124.6
35°	773.8	773.8	773.8	771.9	771.9	769.9	768.0	766.0	764.1	762.1	760.2
37.5°	777.7	777.7	777.7	777.7	775.8	773.8	773.8	769.9	768.0	766.0	764.1
40°	779.7	781.6	781.6	781.6	779.7	779.7	777.7	773.8	771.9	768.0	764.1
42.5°	777.7	779.7	779.7	777.7	777.7	775.8	775.8	773.8	771.9	769.9	768.0
45°	752.4	754.3	750.4	750.4	748.5	748.5	748.5	748.5	748.5	750.4	750.4
47.5°	707.6	707.6	705.6	703.7	703.7	701.7	703.7	701.7	705.6	707.6	711.5
50°	654.9	654.9	651.0	649.1	649.1	649.1	649.1	651.0	653.0	656.9	660.8
52.5°	600.4	600.4	598.4	596.5	594.5	594.5	600.4	598.4	600.4	602.3	608.2
55°	547.7	549.7	545.8	545.8	543.8	543.8	543.8	545.8	547.7	549.7	555.5
57.5°	502.9	502.9	499.0	499.0	499.0	497.0	502.9	499.0	500.9	502.9	506.8
60°	458.1	456.1	456.1	454.2	454.2	454.2	458.1	456.1	456.1	458.1	462.0
62.5°	417.1	417.1	415.2	415.2	413.2	413.2	417.1	415.2	415.2	417.1	419.1
65°	370.3	370.3	368.4	366.5	372.3	366.5	372.3	368.4	372.3	374.2	378.1
67.5°	317.7	317.7	317.7	315.8	315.8	319.7	321.6	317.7	319.7	323.6	325.5
70°	270.9	270.9	269.0	269.0	269.0	272.9	274.8	270.9	272.9	274.8	278.7
72.5°	230.0	226.1	226.1	224.2	228.1	228.1	230.0	228.1	230.0	230.0	233.9
75°	189.1	185.2	185.2	185.2	189.1	187.1	189.1	187.1	189.1	189.1	191.0
77.5°	152.0	150.1	148.1	148.1	152.0	152.0	152.0	150.1	152.0	154.0	155.9
80°	118.9	117.0	115.0	115.0	118.9	118.9	118.9	120.9	118.9	120.9	122.8
82.5°	87.7	85.8	83.8	87.7	87.7	87.7	87.7	89.7	87.7	89.7	91.6
85°	58.5	56.5	54.6	58.5	58.5	58.5	58.5	60.4	58.5	60.4	62.4
87.5°	31.2	29.2	29.2	31.2	31.2	31.2	33.1	33.1	33.1	35.1	35.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-93SL-RW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2
2.5°	4602.1	4607.9	4606.0	4594.3	4582.6	4568.9	4559.2	4561.1	4580.6	4586.5	4568.9
5°	4409.1	4446.1	4446.1	4471.5	4457.8	4446.1	4453.9	4496.8	4518.3	4551.4	4563.1
7.5°	4210.3	4227.8	4225.9	4251.2	4247.3	4247.3	4253.2	4309.7	4337.0	4364.3	4372.1
10°	4099.2	4116.7	4114.8	4116.7	4110.9	4097.2	4097.2	4122.6	4146.0	4159.6	4163.5
12.5°	4019.3	4029.0	4027.1	4027.1	4023.2	4011.5	4009.5	4031.0	4056.3	4073.8	4075.8
15°	3900.4	3927.7	3933.5	3958.8	3953.0	3937.4	3941.3	3958.8	3974.4	3990.0	3984.2
17.5°	3723.0	3736.6	3738.6	3748.3	3744.4	3744.4	3767.8	3832.1	3875.0	3912.1	3916.0
20°	3621.6	3631.4	3627.5	3648.9	3639.2	3637.2	3643.1	3670.4	3689.8	3707.4	3738.6
22.5°	3572.9	3580.7	3574.8	3576.8	3559.3	3543.7	3539.8	3561.2	3582.6	3606.0	3606.0
25°	3532.0	3537.8	3535.9	3532.0	3518.3	3496.9	3493.0	3496.9	3504.7	3506.6	3493.0
27.5°	3483.2	3487.1	3487.1	3489.1	3471.5	3452.0	3448.1	3444.2	3452.0	3450.1	3428.7
30°	3432.6	3426.7	3428.7	3430.6	3415.0	3397.5	3389.7	3387.7	3395.5	3393.6	3372.1
32.5°	3311.7	3356.5	3360.4	3364.3	3350.7	3335.1	3327.3	3321.4	3325.3	3323.4	3303.9
35°	758.2	771.9	945.4	2140.2	2906.3	3218.1	3251.3	3243.5	3245.4	3245.4	3229.8
37.5°	760.2	758.2	756.3	750.4	744.6	740.7	1280.6	2730.8	3163.6	3165.5	3151.9
40°	760.2	758.2	756.3	752.4	744.6	738.7	729.0	721.2	738.7	1625.6	2974.5
42.5°	764.1	760.2	756.3	752.4	744.6	736.8	729.0	719.3	725.1	721.2	711.5
45°	752.4	750.4	750.4	748.5	744.6	736.8	727.1	715.4	709.5	715.4	705.6
47.5°	715.4	717.3	723.2	725.1	725.1	727.1	721.2	713.4	703.7	709.5	697.8
50°	664.7	668.6	670.5	680.3	684.2	692.0	693.9	693.9	692.0	699.8	692.0
52.5°	610.1	614.0	623.7	627.6	631.5	643.2	647.1	653.0	656.9	668.6	676.4
55°	557.5	559.4	563.3	571.1	577.0	586.7	592.6	598.4	608.2	614.0	637.4
57.5°	508.7	510.7	518.5	520.4	524.3	532.1	538.0	545.8	553.6	557.5	584.8
60°	462.0	463.9	469.8	471.7	473.7	481.5	487.3	493.1	499.0	502.9	522.4
62.5°	421.0	421.0	426.9	426.9	428.8	434.7	438.6	442.5	448.3	450.3	460.0
65°	380.1	382.0	385.9	385.9	387.9	391.8	393.7	395.7	401.5	401.5	409.3
67.5°	329.4	331.4	337.2	341.1	343.1	350.9	352.8	354.8	358.7	360.6	364.5
70°	280.7	282.6	288.5	290.4	292.4	298.2	302.1	308.0	313.8	319.7	323.6
72.5°	235.9	237.8	243.7	243.7	249.5	251.4	255.3	257.3	263.1	267.0	272.9
75°	193.0	194.9	200.8	200.8	206.6	208.6	210.5	212.5	216.4	220.3	224.2
77.5°	157.9	157.9	165.7	169.6	173.5	173.5	175.4	175.4	175.4	177.4	181.3
80°	124.7	124.7	130.6	134.5	138.4	138.4	140.3	142.3	144.2	144.2	146.2
82.5°	93.6	93.6	99.4	101.4	105.3	105.3	105.3	107.2	109.2	107.2	111.1
85°	64.3	64.3	68.2	70.2	74.1	74.1	74.1	76.0	78.0	76.0	78.0
87.5°	37.0	39.0	40.9	42.9	44.8	46.8	46.8	46.8	48.7	48.7	50.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-93SL-RW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2
2.5°	4549.5	4526.1	4524.1	4496.8	4489.0	4491.0	4469.5	4461.7	4426.7	4418.9	4381.8
5°	4567.0	4578.7	4572.8	4570.9	4576.7	4572.8	4557.2	4549.5	4543.6	4528.0	4496.8
7.5°	4374.0	4381.8	4387.7	4413.0	4434.4	4471.5	4510.5	4535.8	4555.3	4559.2	4533.9
10°	4177.2	4214.2	4239.5	4278.5	4309.7	4331.1	4354.5	4376.0	4432.5	4489.0	4522.2
12.5°	4075.8	4085.5	4083.6	4105.0	4126.5	4183.0	4237.6	4268.8	4311.6	4337.0	4397.4
15°	3990.0	3992.0	3997.8	4013.4	4025.1	4044.6	4069.9	4116.7	4202.5	4241.5	4274.6
17.5°	3912.1	3912.1	3916.0	3929.6	3945.2	3962.7	3978.3	3997.8	4040.7	4105.0	4186.9
20°	3787.3	3841.9	3847.7	3845.8	3853.6	3886.7	3890.6	3925.7	3947.1	3972.5	4052.4
22.5°	3602.1	3635.3	3682.1	3754.2	3781.5	3797.1	3808.8	3824.3	3857.5	3886.7	3919.9
25°	3500.8	3522.2	3535.9	3557.3	3613.8	3705.4	3723.0	3740.5	3762.0	3783.4	3824.3
27.5°	3411.1	3409.2	3418.9	3438.4	3454.0	3502.7	3588.5	3656.7	3660.6	3691.8	3726.9
30°	3346.8	3335.1	3321.4	3317.6	3339.0	3364.3	3389.7	3496.9	3570.9	3586.5	3623.6
32.5°	3286.4	3266.9	3247.4	3231.8	3218.1	3239.6	3255.2	3302.0	3397.5	3487.1	3506.6
35°	3212.3	3192.8	3169.4	3151.9	3130.4	3128.5	3126.5	3171.4	3202.5	3309.8	3403.3
37.5°	3136.3	3114.8	3095.3	3075.8	3054.4	3038.8	3029.1	3040.8	3070.0	3116.8	3272.7
40°	3056.4	3031.0	3011.5	2995.9	2966.7	2955.0	2935.5	2927.7	2929.7	2970.6	3052.5
42.5°	1826.4	2912.1	2921.9	2904.3	2879.0	2863.4	2841.9	2832.2	2812.7	2832.2	2879.0
45°	703.7	711.5	2130.5	2814.7	2783.5	2764.0	2744.5	2734.7	2713.3	2697.7	2740.6
47.5°	690.0	697.8	682.2	966.8	2656.8	2662.6	2639.2	2629.5	2608.0	2596.3	2584.6
50°	680.3	686.1	674.4	678.3	664.7	2434.6	2532.0	2520.3	2496.9	2483.3	2459.9
52.5°	670.5	670.5	662.7	653.0	649.1	651.0	2048.6	2409.2	2381.9	2368.3	2337.1
55°	639.3	643.2	651.0	635.4	631.5	629.6	623.7	1951.2	2255.2	2239.6	2212.4
57.5°	592.6	600.4	621.8	617.9	617.9	602.3	598.4	598.4	1810.8	2109.0	2081.8
60°	538.0	545.8	569.2	577.0	582.8	578.9	575.0	573.1	565.3	1908.3	1943.4
62.5°	481.5	489.3	497.0	522.4	530.2	539.9	551.6	545.8	538.0	538.0	1797.2
65°	421.0	432.7	436.6	460.0	469.8	487.3	497.0	510.7	506.8	504.8	514.6
67.5°	368.4	382.0	384.0	393.7	411.3	419.1	430.8	456.1	467.8	471.7	475.6
70°	323.6	331.4	337.2	341.1	352.8	354.8	376.2	393.7	411.3	430.8	436.6
72.5°	278.7	284.6	296.3	292.4	296.3	304.1	315.8	327.5	345.0	372.3	389.8
75°	228.1	232.0	239.8	243.7	251.4	257.3	265.1	274.8	290.4	304.1	327.5
77.5°	183.2	185.2	191.0	193.0	200.8	206.6	220.3	226.1	235.9	245.6	259.2
80°	148.1	148.1	150.1	150.1	155.9	161.8	171.5	177.4	189.1	196.9	196.9
82.5°	113.1	113.1	118.9	118.9	122.8	122.8	128.6	128.6	134.5	138.4	142.3
85°	79.9	81.9	85.8	83.8	87.7	85.8	89.7	93.6	95.5	93.6	91.6
87.5°	52.6	52.6	56.5	54.6	56.5	56.5	60.4	60.4	62.4	62.4	60.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-93SL-RW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2
2.5°	4368.2	4338.9	4321.4	4300.0	4294.1	4288.3	4296.1	4296.1	4284.4	4274.6	4257.1
5°	4469.5	4438.3	4405.2	4370.1	4337.0	4301.9	4288.3	4286.3	4264.9	4253.2	4247.3
7.5°	4522.2	4506.6	4469.5	4420.8	4370.1	4307.7	4280.5	4264.9	4243.4	4239.5	4239.5
10°	4528.0	4510.5	4491.0	4455.9	4397.4	4315.5	4262.9	4231.7	4212.2	4225.9	4251.2
12.5°	4471.5	4504.6	4487.1	4463.7	4416.9	4317.5	4241.5	4194.7	4188.8	4223.9	4290.2
15°	4327.2	4424.7	4473.4	4450.0	4413.0	4313.6	4206.4	4151.8	4151.8	4223.9	4309.7
17.5°	4218.1	4294.1	4413.0	4432.5	4389.6	4305.8	4173.3	4108.9	4126.5	4231.7	4323.3
20°	4128.4	4175.2	4290.2	4399.4	4358.4	4288.3	4124.5	4058.2	4093.3	4220.0	4342.8
22.5°	3988.1	4081.6	4151.8	4313.6	4327.2	4255.1	4075.8	3995.9	4066.0	4220.0	4333.1
25°	3851.6	3964.7	4038.8	4196.6	4280.5	4214.2	4031.0	3929.6	4036.8	4214.2	4325.3
27.5°	3756.1	3808.8	3943.2	4056.3	4210.3	4159.6	3970.5	3857.5	3999.8	4183.0	4280.5
30°	3654.8	3689.8	3822.4	3929.6	4116.7	4097.2	3908.2	3777.6	3953.0	4153.8	4163.5
32.5°	3543.7	3582.6	3650.9	3806.8	3986.1	4038.8	3838.0	3697.6	3902.3	4108.9	4027.1
35°	3430.6	3459.8	3514.4	3682.1	3834.1	3951.0	3752.2	3606.0	3867.2	4040.7	3896.5
37.5°	3317.6	3348.7	3395.5	3535.9	3674.3	3869.2	3678.2	3514.4	3802.9	3919.9	3760.0
40°	3210.3	3227.9	3276.6	3364.3	3541.7	3785.4	3594.3	3418.9	3736.6	3765.9	3574.8
42.5°	3013.5	3101.2	3146.0	3216.2	3391.6	3670.4	3496.9	3317.6	3662.6	3611.9	3389.7
45°	2801.0	2992.0	3011.5	3081.7	3259.1	3547.6	3405.3	3218.1	3592.4	3479.3	3214.2
47.5°	2627.5	2765.9	2879.0	2937.5	3101.2	3403.3	3319.5	3134.3	3487.1	3311.7	3042.7
50°	2473.5	2547.6	2752.3	2795.2	2912.1	3229.8	3218.1	3036.9	3340.9	3101.2	2875.1
52.5°	2323.5	2376.1	2561.3	2652.9	2748.4	3042.7	3097.3	2941.4	3181.1	2890.7	2705.5
55°	2192.9	2210.4	2311.8	2504.7	2590.5	2853.6	2964.7	2830.2	2978.4	2689.9	2541.8
57.5°	2058.4	2042.8	2116.8	2364.4	2426.8	2660.7	2824.4	2717.2	2814.7	2485.2	2372.2
60°	1918.0	1896.6	1927.8	2091.5	2253.3	2469.6	2658.7	2592.4	2615.8	2282.5	2183.1
62.5°	1771.8	1750.4	1740.6	1844.0	2083.7	2272.8	2491.1	2454.1	2372.2	2097.3	1949.2
65°	1619.8	1598.4	1582.8	1623.7	1896.6	2017.4	2304.0	2294.2	2105.1	1902.4	1641.2
67.5°	493.1	1454.1	1421.0	1419.0	1598.4	1785.5	2101.2	2085.7	1836.2	1693.9	1413.2
70°	444.4	1179.3	1253.3	1235.8	1313.8	1549.6	1869.3	1857.6	1575.0	1358.6	1249.4
72.5°	407.4	417.1	1107.1	1087.7	1105.2	1317.7	1627.6	1596.4	1335.2	1072.1	1079.9
75°	348.9	366.5	382.0	918.1	894.7	1091.6	1364.4	1315.7	1101.3	884.9	902.5
77.5°	284.6	306.0	317.7	668.6	723.2	777.7	1089.6	1025.3	758.2	707.6	337.2
80°	212.5	230.0	249.5	267.0	549.7	543.8	808.9	744.6	528.2	440.5	263.1
82.5°	155.9	161.8	173.5	193.0	218.3	364.5	520.4	458.1	366.5	200.8	181.3
85°	97.5	105.3	111.1	117.0	132.5	218.3	257.3	204.7	154.0	122.8	115.0
87.5°	62.4	62.4	60.4	62.4	64.3	78.0	87.7	83.8	66.3	62.4	62.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-93SL-RW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2
2.5°	4237.6	4210.3	4210.3	4202.5	4208.3	4208.3	4206.4	4208.3	4222.0	4229.8	4243.4
5°	4235.6	4227.8	4245.4	4266.8	4292.2	4323.3	4331.1	4358.4	4383.8	4416.9	4452.0
7.5°	4261.0	4288.3	4321.4	4356.5	4407.2	4444.2	4477.3	4510.5	4533.9	4565.0	4584.5
10°	4298.0	4352.6	4409.1	4453.9	4508.5	4539.7	4561.1	4565.0	4531.9	4479.3	4436.4
12.5°	4350.6	4415.0	4467.6	4510.5	4535.8	4524.1	4461.7	4397.4	4360.4	4305.8	4229.8
15°	4395.5	4453.9	4508.5	4491.0	4422.8	4358.4	4309.7	4233.7	4159.6	4108.9	4075.8
17.5°	4415.0	4471.5	4452.0	4360.4	4296.1	4222.0	4122.6	4064.1	4015.4	3976.4	3956.9
20°	4426.7	4416.9	4311.6	4245.4	4120.6	4052.4	3988.1	3933.5	3896.5	3877.0	3873.1
22.5°	4395.5	4276.6	4186.9	4068.0	3976.4	3919.9	3869.2	3824.3	3799.0	3783.4	3773.7
25°	4292.2	4153.8	4021.2	3927.7	3849.7	3801.0	3762.0	3724.9	3693.7	3686.0	3666.5
27.5°	4147.9	4034.9	3859.4	3787.3	3719.1	3695.7	3652.8	3615.8	3588.5	3565.1	3502.7
30°	4029.0	3849.7	3723.0	3656.7	3615.8	3588.5	3539.8	3500.8	3454.0	3368.2	3333.1
32.5°	3882.8	3705.4	3584.6	3547.6	3496.9	3473.5	3418.9	3333.1	3261.0	3225.9	3224.0
35°	3693.7	3547.6	3459.8	3426.7	3385.8	3346.8	3233.7	3155.8	3120.7	3124.6	3153.8
37.5°	3535.9	3405.3	3348.7	3302.0	3255.2	3155.8	3060.3	3023.2	3033.0	3052.5	3066.1
40°	3376.0	3276.6	3212.3	3175.3	3070.0	2972.5	2921.9	2935.5	2953.0	2966.7	2984.2
42.5°	3220.1	3149.9	3085.6	3013.5	2869.2	2816.6	2828.3	2845.8	2861.4	2880.9	2898.5
45°	3072.0	3009.6	2935.5	2771.8	2699.7	2713.3	2730.8	2744.5	2767.9	2781.5	2799.1
47.5°	2931.6	2865.3	2734.7	2590.5	2582.7	2610.0	2625.6	2643.1	2660.7	2625.6	1448.3
50°	2773.7	2705.5	2506.7	2452.1	2469.6	2495.0	2514.5	2532.0	2255.2	896.6	690.0
52.5°	2617.8	2444.3	2317.6	2333.2	2350.7	2380.0	2393.6	1777.7	707.6	674.4	676.4
55°	2444.3	2222.1	2185.1	2204.6	2220.1	2249.4	1491.1	653.0	649.1	647.1	662.7
57.5°	2171.4	2036.9	2052.5	2072.0	2087.6	1473.6	635.4	631.5	633.5	635.4	637.4
60°	1927.8	1898.5	1916.1	1933.6	1368.3	614.0	602.3	604.3	612.1	606.2	590.6
62.5°	1734.8	1758.2	1775.7	1555.5	582.8	577.0	582.8	577.0	563.3	553.6	534.1
65°	1586.7	1610.0	1623.7	547.7	545.8	553.6	547.7	528.2	506.8	479.5	473.7
67.5°	1430.7	1454.1	520.4	506.8	514.6	504.8	481.5	458.1	442.5	419.1	409.3
70°	1268.9	543.8	471.7	469.8	456.1	440.5	415.2	391.8	372.3	362.6	352.8
72.5°	916.1	430.8	424.9	409.3	385.9	364.5	343.1	329.4	319.7	313.8	308.0
75°	382.0	374.2	356.7	329.4	306.0	296.3	280.7	270.9	267.0	255.3	251.4
77.5°	319.7	304.1	278.7	259.2	245.6	239.8	228.1	216.4	210.5	208.6	200.8
80°	245.6	224.2	212.5	202.7	198.8	185.2	171.5	165.7	161.8	159.8	154.0
82.5°	167.6	159.8	152.0	138.4	138.4	132.5	126.7	122.8	118.9	118.9	115.0
85°	109.2	103.3	101.4	95.5	95.5	91.6	89.7	87.7	85.8	83.8	81.9
87.5°	62.4	62.4	64.3	62.4	62.4	60.4	58.5	56.5	54.6	54.6	50.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-93SL-RW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2
2.5°	4261.0	4280.5	4284.4	4350.6	4387.7	4385.7	4374.0	4409.1	4387.7	4376.0	4387.7
5°	4487.1	4510.5	4530.0	4602.1	4627.4	4639.1	4637.2	4656.7	4641.1	4627.4	4627.4
7.5°	4598.2	4606.0	4613.8	4596.2	4584.5	4565.0	4535.8	4492.9	4471.5	4448.1	4418.9
10°	4415.0	4389.6	4399.4	4364.3	4335.0	4313.6	4286.3	4251.2	4222.0	4200.5	4167.4
12.5°	4190.8	4188.8	4192.7	4198.6	4169.4	4151.8	4130.4	4105.0	4083.6	4060.2	4032.9
15°	4054.4	4056.3	4071.9	4066.0	4056.3	4046.6	4023.2	4015.4	3995.9	3970.5	3954.9
17.5°	3956.9	3966.6	3982.2	3974.4	3958.8	3949.1	3931.6	3914.0	3896.5	3877.0	3853.6
20°	3871.1	3880.9	3890.6	3880.9	3851.6	3838.0	3814.6	3760.0	3721.0	3682.1	3647.0
22.5°	3777.6	3783.4	3775.6	3744.4	3670.4	3635.3	3608.0	3592.4	3559.3	3537.8	3516.4
25°	3660.6	3627.5	3576.8	3541.7	3512.5	3496.9	3485.2	3483.2	3479.3	3475.4	3465.7
27.5°	3469.6	3457.9	3430.6	3417.0	3418.9	3424.8	3426.7	3432.6	3426.7	3418.9	3411.1
30°	3327.3	3333.1	3335.1	3339.0	3348.7	3354.6	3356.5	3364.3	3360.4	3354.6	3350.7
32.5°	3237.6	3251.3	3259.1	3270.8	3276.6	3286.4	3286.4	3298.1	3286.4	3284.4	3280.5
35°	3163.6	3175.3	3179.2	3196.7	3202.5	3212.3	3212.3	3222.0	3212.3	3112.9	2458.0
37.5°	3089.5	3101.2	3109.0	3124.6	3126.5	3132.4	2890.7	2114.9	1364.4	1056.5	807.0
40°	3001.8	3015.4	3023.2	3029.1	2128.5	1350.8	929.8	756.3	756.3	762.1	768.0
42.5°	2908.2	2918.0	2033.0	1183.2	736.8	734.9	740.7	746.5	752.4	760.2	768.0
45°	2286.4	1153.9	732.9	715.4	721.2	729.0	736.8	744.6	754.3	762.1	766.0
47.5°	750.4	703.7	713.4	705.6	715.4	725.1	732.9	740.7	742.6	744.6	742.6
50°	693.9	693.9	699.8	699.8	707.6	711.5	711.5	711.5	703.7	701.7	695.9
52.5°	670.5	686.1	678.3	682.2	678.3	672.5	666.6	660.8	649.1	645.2	637.4
55°	658.8	664.7	645.2	639.3	631.5	615.9	608.2	600.4	590.6	586.7	577.0
57.5°	631.5	617.9	596.5	586.7	573.1	557.5	549.7	543.8	534.1	530.2	524.3
60°	580.9	553.6	539.9	528.2	512.6	499.0	493.1	489.3	481.5	479.5	473.7
62.5°	518.5	495.1	483.4	467.8	456.1	448.3	442.5	440.5	432.7	432.7	428.8
65°	450.3	438.6	428.8	413.2	407.4	399.6	397.6	395.7	391.8	389.8	385.9
67.5°	395.7	387.9	374.2	366.5	362.6	356.7	352.8	348.9	341.1	337.2	331.4
70°	347.0	341.1	327.5	321.6	313.8	304.1	298.2	294.3	288.5	284.6	278.7
72.5°	300.2	282.6	272.9	267.0	261.2	251.4	249.5	245.6	239.8	237.8	232.0
75°	241.7	228.1	222.2	218.3	212.5	206.6	206.6	206.6	200.8	198.8	196.9
77.5°	193.0	185.2	181.3	177.4	175.4	171.5	165.7	163.7	157.9	157.9	155.9
80°	148.1	144.2	140.3	138.4	136.4	132.5	128.6	126.7	120.9	120.9	118.9
82.5°	109.2	107.2	105.3	103.3	101.4	99.4	93.6	91.6	87.7	87.7	85.8
85°	78.0	76.0	72.1	70.2	70.2	68.2	62.4	60.4	56.5	56.5	56.5
87.5°	48.7	46.8	44.8	42.9	40.9	39.0	35.1	33.1	33.1	29.2	27.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-93SL-RW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2
2.5°	4364.3	4397.4	4393.5	4416.9	4422.8	4434.4	4438.3	4440.3	4411.1	4434.4	4436.4
5°	4621.6	4627.4	4631.3	4641.1	4650.8	4652.8	4643.0	4631.3	4635.2	4627.4	4607.9
7.5°	4415.0	4385.7	4379.9	4372.1	4368.2	4364.3	4346.7	4362.3	4344.8	4337.0	4309.7
10°	4161.6	4134.3	4132.3	4132.3	4138.2	4136.2	4132.3	4124.5	4140.1	4130.4	4124.5
12.5°	4029.0	4019.3	4025.1	4021.2	4036.8	4040.7	4036.8	4036.8	4032.9	4025.1	4029.0
15°	3949.1	3941.3	3947.1	3941.3	3953.0	3954.9	3945.2	3951.0	3941.3	3931.6	3927.7
17.5°	3843.8	3826.3	3812.6	3793.2	3795.1	3791.2	3779.5	3779.5	3769.8	3744.4	3746.4
20°	3641.1	3623.6	3615.8	3615.8	3625.5	3629.4	3627.5	3631.4	3621.6	3617.7	3602.1
22.5°	3514.4	3512.5	3516.4	3526.1	3541.7	3563.2	3565.1	3565.1	3565.1	3563.2	3543.7
25°	3469.6	3469.6	3473.5	3487.1	3498.8	3514.4	3518.3	3522.2	3518.3	3518.3	3500.8
27.5°	3418.9	3415.0	3422.8	3436.5	3450.1	3461.8	3471.5	3473.5	3467.6	3467.6	3473.5
30°	3356.5	3354.6	3364.3	3378.0	3389.7	3401.4	3411.1	3418.9	3411.1	3411.1	3405.3
32.5°	3292.2	3292.2	3296.1	3214.2	2980.3	2684.1	2689.9	2518.4	2399.5	2249.4	2448.2
35°	2054.5	1495.0	1284.5	1087.7	949.3	859.6	857.7	828.4	814.8	805.0	803.1
37.5°	775.8	779.7	787.5	791.4	797.2	801.1	803.1	803.1	803.1	803.1	801.1
40°	773.8	781.6	787.5	793.3	799.2	803.1	803.1	805.0	807.0	807.0	807.0
42.5°	775.8	783.6	791.4	797.2	801.1	803.1	805.0	807.0	807.0	807.0	807.0
45°	773.8	777.7	777.7	779.7	779.7	779.7	781.6	781.6	779.7	777.7	781.6
47.5°	744.6	744.6	738.7	736.8	734.9	731.0	732.9	731.0	729.0	727.1	731.0
50°	693.9	686.1	682.2	678.3	676.4	672.5	674.4	672.5	670.5	666.6	672.5
52.5°	633.5	631.5	623.7	619.8	617.9	619.8	615.9	614.0	612.1	610.1	612.1
55°	575.0	567.2	565.3	561.4	559.4	561.4	559.4	557.5	555.5	553.6	555.5
57.5°	522.4	516.5	514.6	510.7	510.7	510.7	510.7	508.7	506.8	504.8	506.8
60°	471.7	467.8	465.9	465.9	463.9	463.9	463.9	462.0	460.0	460.0	462.0
62.5°	428.8	428.8	423.0	421.0	421.0	423.0	421.0	419.1	417.1	415.2	419.1
65°	384.0	376.2	374.2	370.3	366.5	368.4	366.5	364.5	362.6	360.6	364.5
67.5°	329.4	327.5	319.7	315.8	313.8	315.8	313.8	311.9	309.9	308.0	311.9
70°	276.8	276.8	269.0	267.0	265.1	265.1	263.1	263.1	261.2	259.2	263.1
72.5°	230.0	230.0	228.1	224.2	222.2	220.3	218.3	216.4	216.4	218.3	218.3
75°	191.0	187.1	179.3	181.3	179.3	177.4	177.4	175.4	173.5	177.4	175.4
77.5°	150.1	148.1	142.3	144.2	142.3	140.3	140.3	138.4	136.4	138.4	138.4
80°	113.1	113.1	111.1	109.2	109.2	107.2	105.3	105.3	103.3	105.3	105.3
82.5°	81.9	81.9	79.9	78.0	76.0	76.0	74.1	74.1	74.1	74.1	74.1
85°	52.6	50.7	50.7	46.8	46.8	46.8	44.8	44.8	44.8	44.8	44.8
87.5°	25.3	25.3	23.4	23.4	21.4	19.5	19.5	17.5	17.5	19.5	19.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-93SL-RW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2
2.5°	4401.3	4426.7	4405.2	4415.0	4416.9	4450.0	4448.1	4455.9	4442.2	4426.7	4405.2
5°	4625.5	4613.8	4598.2	4635.2	4615.7	4639.1	4646.9	4662.5	4662.5	4660.6	4643.0
7.5°	4338.9	4313.6	4333.1	4346.7	4352.6	4337.0	4368.2	4403.3	4432.5	4450.0	4452.0
10°	4114.8	4122.6	4120.6	4126.5	4140.1	4138.2	4157.7	4177.2	4184.9	4196.6	4200.5
12.5°	4009.5	4007.6	4011.5	4025.1	4032.9	4031.0	4050.5	4062.1	4066.0	4068.0	4066.0
15°	3925.7	3912.1	3921.8	3923.8	3929.6	3929.6	3953.0	3970.5	3978.3	3982.2	3978.3
17.5°	3767.8	3734.7	3765.9	3765.9	3787.3	3783.4	3820.4	3849.7	3865.3	3877.0	3877.0
20°	3611.9	3596.3	3608.0	3604.1	3619.7	3617.7	3641.1	3660.6	3674.3	3684.0	3695.7
22.5°	3549.5	3553.4	3535.9	3537.8	3537.8	3535.9	3547.6	3557.3	3561.2	3567.0	3563.2
25°	3508.6	3512.5	3506.6	3496.9	3493.0	3496.9	3502.7	3514.4	3516.4	3512.5	3498.8
27.5°	3467.6	3455.9	3465.7	3448.1	3444.2	3452.0	3459.8	3461.8	3463.7	3463.7	3452.0
30°	3405.3	3395.5	3405.3	3397.5	3389.7	3397.5	3403.3	3403.3	3407.2	3409.2	3395.5
32.5°	2380.0	2399.5	2715.2	2906.3	3175.3	3311.7	3337.0	3337.0	3340.9	3340.9	3329.2
35°	810.9	812.8	879.1	953.2	1111.0	1306.0	1561.3	1693.9	2142.2	2678.2	3196.7
37.5°	801.1	799.2	797.2	795.3	793.3	791.4	787.5	785.5	797.2	945.4	1282.6
40°	805.0	803.1	799.2	797.2	795.3	791.4	789.4	785.5	781.6	777.7	773.8
42.5°	805.0	803.1	801.1	799.2	797.2	795.3	791.4	787.5	783.6	777.7	771.9
45°	777.7	777.7	779.7	779.7	781.6	781.6	781.6	779.7	779.7	777.7	769.9
47.5°	727.1	727.1	732.9	732.9	736.8	740.7	740.7	744.6	750.4	754.3	756.3
50°	668.6	668.6	674.4	676.4	680.3	686.1	692.0	693.9	699.8	707.6	715.4
52.5°	610.1	610.1	615.9	615.9	619.8	625.7	631.5	633.5	641.3	649.1	658.8
55°	555.5	555.5	559.4	561.4	563.3	567.2	573.1	573.1	580.9	586.7	596.5
57.5°	506.8	510.7	510.7	510.7	512.6	516.5	520.4	520.4	526.3	532.1	539.9
60°	460.0	463.9	463.9	463.9	465.9	467.8	471.7	471.7	475.6	479.5	487.3
62.5°	417.1	421.0	421.0	423.0	423.0	424.9	428.8	426.9	430.8	432.7	438.6
65°	362.6	366.5	368.4	370.3	372.3	376.2	382.0	380.1	385.9	389.8	395.7
67.5°	309.9	313.8	313.8	315.8	317.7	321.6	325.5	325.5	331.4	335.3	343.1
70°	261.2	265.1	265.1	267.0	269.0	272.9	276.8	274.8	280.7	284.6	290.4
72.5°	216.4	220.3	220.3	222.2	222.2	226.1	230.0	233.9	233.9	237.8	241.7
75°	175.4	177.4	179.3	179.3	181.3	183.2	187.1	191.0	193.0	194.9	198.8
77.5°	138.4	140.3	142.3	142.3	144.2	146.2	148.1	155.9	159.8	161.8	161.8
80°	105.3	107.2	107.2	107.2	109.2	111.1	115.0	115.0	122.8	122.8	124.7
82.5°	74.1	76.0	76.0	76.0	78.0	81.9	83.8	85.8	89.7	91.6	91.6
85°	44.8	46.8	46.8	46.8	48.7	50.7	54.6	56.5	58.5	58.5	60.4
87.5°	17.5	19.5	21.4	21.4	23.4	25.3	27.3	29.2	31.2	31.2	33.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-93SL-RW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2
2.5°	4381.8	4395.5	4381.8	4389.6	4399.4	4381.8	4340.9	4325.3	4319.4	4296.1	4280.5
5°	4625.5	4625.5	4619.6	4635.2	4633.3	4606.0	4563.1	4543.6	4524.1	4498.8	4479.3
7.5°	4452.0	4467.6	4477.3	4537.8	4576.7	4580.6	4607.9	4613.8	4621.6	4613.8	4602.1
10°	4202.5	4196.6	4223.9	4280.5	4313.6	4331.1	4383.8	4409.1	4430.5	4473.4	4518.3
12.5°	4062.1	4069.9	4081.6	4122.6	4153.8	4146.0	4167.4	4184.9	4210.3	4253.2	4317.5
15°	3968.6	3976.4	3988.1	4019.3	4038.8	4029.0	4040.7	4052.4	4069.9	4091.4	4130.4
17.5°	3867.2	3880.9	3894.5	3927.7	3945.2	3943.2	3953.0	3956.9	3962.7	3976.4	4003.7
20°	3709.3	3752.2	3779.5	3824.3	3849.7	3845.8	3863.3	3869.2	3877.0	3890.6	3902.3
22.5°	3565.1	3576.8	3590.4	3639.2	3682.1	3734.7	3746.4	3762.0	3781.5	3795.1	3806.8
25°	3483.2	3475.4	3481.3	3514.4	3537.8	3541.7	3559.3	3609.9	3662.6	3686.0	3713.2
27.5°	3434.5	3426.7	3424.8	3440.4	3444.2	3434.5	3430.6	3446.2	3485.2	3524.2	3606.0
30°	3381.9	3372.1	3364.3	3378.0	3383.8	3370.2	3344.8	3331.2	3354.6	3364.3	3397.5
32.5°	3319.5	3309.8	3305.9	3313.7	3317.6	3305.9	3278.6	3263.0	3259.1	3251.3	3259.1
35°	3249.3	3239.6	3233.7	3235.7	3243.5	3233.7	3210.3	3190.9	3181.1	3159.7	3144.1
37.5°	1674.4	2372.2	3079.7	3153.8	3161.6	3159.7	3136.3	3114.8	3105.1	3079.7	3072.0
40°	766.0	855.7	1284.5	1678.3	2420.9	3075.8	3054.4	3033.0	3015.4	3007.6	2978.4
42.5°	764.1	766.0	768.0	758.2	939.5	1600.3	2362.4	2949.2	2937.5	2918.0	2896.5
45°	764.1	754.3	762.1	750.4	754.3	752.4	937.6	1512.6	2691.9	2812.7	2803.0
47.5°	756.3	750.4	758.2	748.5	736.8	742.6	734.9	744.6	1161.7	1970.6	2699.7
50°	721.2	725.1	738.7	736.8	727.1	734.9	721.2	732.9	723.2	793.3	1528.2
52.5°	668.6	676.4	690.0	701.7	705.6	715.4	711.5	715.4	707.6	709.5	711.5
55°	606.2	615.9	627.6	645.2	653.0	668.6	680.3	686.1	695.9	693.9	678.3
57.5°	547.7	557.5	567.2	584.8	602.3	610.1	631.5	643.2	668.6	662.7	658.8
60°	493.1	500.9	510.7	514.6	536.0	549.7	569.2	580.9	614.0	621.8	633.5
62.5°	444.4	448.3	456.1	462.0	475.6	489.3	499.0	518.5	536.0	561.4	578.9
65°	399.6	403.5	409.3	413.2	415.2	434.7	440.5	462.0	467.8	495.1	510.7
67.5°	348.9	356.7	364.5	368.4	372.3	384.0	387.9	397.6	411.3	423.0	442.5
70°	296.3	302.1	309.9	315.8	323.6	331.4	343.1	348.9	358.7	366.5	382.0
72.5°	247.5	253.4	257.3	263.1	269.0	274.8	284.6	298.2	306.0	319.7	323.6
75°	200.8	206.6	210.5	214.4	220.3	224.2	228.1	241.7	249.5	261.2	272.9
77.5°	165.7	165.7	169.6	181.3	179.3	179.3	183.2	191.0	196.9	204.7	216.4
80°	128.6	130.6	132.5	142.3	144.2	146.2	144.2	150.1	155.9	157.9	165.7
82.5°	95.5	97.5	97.5	103.3	109.2	109.2	109.2	111.1	117.0	118.9	122.8
85°	64.3	66.3	68.2	70.2	74.1	76.0	78.0	78.0	81.9	83.8	85.8
87.5°	35.1	39.0	40.9	42.9	44.8	46.8	48.7	50.7	52.6	54.6	56.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-93SL-RW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2	4253.2
2.5°	4274.6	4264.9	4259.0	4243.4	4239.5	4214.2	4218.1	4214.2	4214.2	4220.0	4239.5
5°	4457.8	4411.1	4399.4	4366.2	4338.9	4292.2	4262.9	4247.3	4223.9	4214.2	4227.8
7.5°	4582.6	4547.5	4518.3	4489.0	4450.0	4395.5	4354.5	4307.7	4268.8	4231.7	4222.0
10°	4561.1	4600.1	4600.1	4582.6	4545.6	4491.0	4442.2	4383.8	4315.5	4257.1	4222.0
12.5°	4379.9	4448.1	4502.7	4543.6	4580.6	4543.6	4494.9	4448.1	4372.1	4286.3	4222.0
15°	4181.0	4251.2	4319.4	4405.2	4494.9	4531.9	4530.0	4475.4	4407.2	4317.5	4227.8
17.5°	4040.7	4089.4	4126.5	4220.0	4329.2	4424.7	4489.0	4492.9	4426.7	4346.7	4229.8
20°	3935.4	3970.5	4001.7	4054.4	4149.9	4266.8	4385.7	4452.0	4440.3	4352.6	4235.6
22.5°	3839.9	3865.3	3890.6	3929.6	4005.6	4081.6	4220.0	4356.5	4415.0	4342.8	4229.8
25°	3744.4	3771.7	3791.2	3818.5	3878.9	3941.3	4038.8	4208.3	4338.9	4335.0	4218.1
27.5°	3631.4	3668.4	3691.8	3728.8	3769.8	3816.5	3882.8	4042.7	4229.8	4296.1	4186.9
30°	3494.9	3549.5	3584.6	3625.5	3660.6	3701.5	3754.2	3851.6	4083.6	4220.0	4153.8
32.5°	3298.1	3395.5	3473.5	3512.5	3551.5	3586.5	3633.3	3715.2	3904.3	4116.7	4116.7
35°	3157.7	3202.5	3272.7	3385.8	3434.5	3469.6	3512.5	3576.8	3697.6	3993.9	4056.3
37.5°	3048.6	3066.1	3101.2	3212.3	3303.9	3360.4	3403.3	3444.2	3563.2	3826.3	3978.3
40°	2966.7	2960.8	2956.9	3009.6	3140.2	3229.8	3278.6	3319.5	3411.1	3625.5	3875.0
42.5°	2871.2	2865.3	2845.8	2859.5	2923.8	3073.9	3148.0	3192.8	3268.8	3415.0	3762.0
45°	2771.8	2762.0	2754.2	2740.6	2764.0	2847.8	2999.8	3066.1	3109.0	3239.6	3619.7
47.5°	2670.4	2656.8	2647.0	2635.3	2621.7	2660.7	2804.9	2923.8	2997.9	3079.7	3448.1
50°	2526.2	2543.7	2532.0	2518.4	2506.7	2498.9	2559.3	2754.2	2845.8	2912.1	3239.6
52.5°	1191.0	2315.7	2413.1	2399.5	2383.9	2370.2	2383.9	2532.0	2697.7	2750.3	2988.1
55°	678.3	1031.1	2146.1	2268.9	2255.2	2235.7	2224.0	2274.7	2522.3	2592.4	2758.1
57.5°	653.0	654.9	947.3	2044.7	2120.7	2103.2	2089.6	2101.2	2311.8	2430.7	2557.4
60°	631.5	631.5	631.5	904.4	1955.1	1960.9	1943.4	1923.9	2015.5	2249.4	2354.6
62.5°	584.8	596.5	602.3	602.3	892.7	1810.8	1793.3	1787.4	1791.3	2031.1	2151.9
65°	524.3	551.6	563.3	571.1	571.1	937.6	1639.3	1629.5	1615.9	1707.5	1947.3
67.5°	458.1	485.4	510.7	526.3	528.2	545.8	978.5	1467.8	1448.3	1450.2	1728.9
70°	389.8	413.2	440.5	463.9	485.4	495.1	510.7	1218.3	1282.6	1255.3	1481.4
72.5°	337.2	347.0	366.5	389.8	415.2	438.6	452.2	485.4	1113.0	1083.8	1126.6
75°	280.7	288.5	302.1	317.7	337.2	364.5	387.9	411.3	590.6	908.3	902.5
77.5°	218.3	232.0	247.5	257.3	267.0	286.5	317.7	341.1	364.5	614.0	723.2
80°	167.6	177.4	185.2	194.9	206.6	220.3	232.0	259.2	286.5	308.0	553.6
82.5°	124.7	130.6	136.4	140.3	144.2	152.0	173.5	183.2	200.8	220.3	261.2
85°	87.7	91.6	95.5	97.5	99.4	101.4	109.2	111.1	128.6	132.5	157.9
87.5°	56.5	58.5	62.4	64.3	64.3	66.3	68.2	68.2	68.2	64.3	78.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-93SL-RW-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	4253.2	4253.2
2.5°	4255.1	4286.3
5°	4249.3	4290.2
7.5°	4233.7	4272.7
10°	4210.3	4257.1
12.5°	4184.9	4229.8
15°	4163.5	4196.6
17.5°	4140.1	4159.6
20°	4108.9	4124.5
22.5°	4077.7	4069.9
25°	4042.7	4025.1
27.5°	3997.8	3964.7
30°	3956.9	3898.4
32.5°	3917.9	3822.4
35°	3865.3	3744.4
37.5°	3810.7	3664.5
40°	3746.4	3572.9
42.5°	3678.2	3481.3
45°	3592.4	3393.6
47.5°	3516.4	3288.3
50°	3411.1	3175.3
52.5°	3282.5	3070.0
55°	3130.4	2941.4
57.5°	2966.7	2806.9
60°	2791.3	2652.9
62.5°	2578.8	2493.0
65°	2329.3	2309.8
67.5°	2003.8	2107.1
70°	1643.2	1875.1
72.5°	1374.2	1629.5
75°	1126.6	1354.7
77.5°	892.7	1062.3
80°	557.5	777.7
82.5°	374.2	510.7
85°	226.1	243.7
87.5°	87.7	89.7
90°	0.0	0.0

(END OF REPORT)